|                |  |              |                 |          |         |  |          |                 |              |          |  |                    | 10/685,568   |          |          |             |               |        |          |            |           | SUZAWA ET AL. |        |              |              |               |          |               |   |
|----------------|--|--------------|-----------------|----------|---------|--|----------|-----------------|--------------|----------|--|--------------------|--------------|----------|----------|-------------|---------------|--------|----------|------------|-----------|---------------|--------|--------------|--------------|---------------|----------|---------------|---|
|                | 7  |              |                 |          |         |  |          |                 |              |          |  | Examiner           |              |          |          |             |               |        |          |            | Art Unit  |               |        |              |              |               |          |               |   |
|                |  |              |                 |          |         |  |          |                 |              |          |  |                    | Cam N Nguyen |          |          |             |               |        |          |            |           | 1754          |        |              |              |               |          |               | - |
| 4              | T  | Reje         | ecte            | he       |         |  |          | (Through numera |              |          |  |                    |              |          | T        | Non-Elected |               |        |          | П          | Appeal    |               |        |              |              | ]             |          |               |   |
| F              | +  |              |                 |          |         |  |          |                 | Cancelled    |          |  | N NON-E            |              |          |          |             |               |        | A        | , .ppou.   |           |               |        |              |              |               |          |               |   |
| [=             | <u>:                                    </u> | Allowed      |                 |          | ÷       |  |          | Restricted      |              |          |  | I Interfer         |              |          | rer      | ence        |               | 0      | Objected |            |           |               |        |              |              |               |          |               |   |
| Claim          | _<br>ৱ                                       | Date         |                 |          |         |  |          |                 | Claim        |          |  |                    | Da           | te       |          | CI          |               |        | aim      |            | Date      |               |        |              | _            | _             |          | ]             |   |
| inal<br>iginal | 3  |              |                 |          |         |  |          |                 | <del>a</del> | nal      |  |                    |              |          | 1        |             |               |        | <u>7</u> | la         |           |               |        |              |              |               |          |               |   |
|                | 1  |              |                 |          |         |  |          |                 | Final        | Original |  |                    |              |          |          |             |               | *<br>* | Final    | Original   |           |               |        |              |              |               |          |               |   |
| 1 1            | 7  | 1            | 匚               |          |         | T  |          |                 |              | 51       |  |                    |              |          | Ţ        |             |               | ٠.     |          | 101        |           |               |        | $\downarrow$ |              |               |          |               | ] |
| 2 i            | 4  | +            | ┼               | $\vdash$ | -       | +-   |          | 1.0             |              | 52<br>53 |  | $\vdash$           | +            | +        | +        | ╂           | $\vdash$      |        |          | 102        |           | 4             | 1      | +            | +            | ╀             | ├-       | L             |   |
| 4 \            | T  | +            | t               | H        | +       | +  |          |                 |              | 54       |  | 1                  | +            | +        | +        | ╁           | $\vdash$      | 10     |          | 103        | $\vdash$  | $\dashv$      | +      | - -          | +            | ╁             | -        | ┢             | 1 |
| 5 🗸            | 1  | 4            |                 |          |         |  |          |                 |              | 55       |  |                    |              |          |          |             |               | de d   |          | 105        |           | 士             |        | 上            |              |               |          |               | j |
| 6 7            | 4  | -            |                 | $\vdash$ | +       | -  | _        |                 |              | 56       | -  | $\sqcup$           | $\perp$      | 1        | -        |             |               | 14     |          | 106        |           | 4             | _[     |              | $\perp$      | ļ.,           |          | $\Box$        |   |
| 8 ,            | 1  | +            | ╁               | $\vdash$ | +       | +  | Н        | - (4            |              | 57<br>58 | <del>                                     </del> | $\vdash$           | +            | ╀        | +-       | +           | -             | 1      |          | 107<br>108 | $\vdash$  | -             | -      | -            | ╀            | ╀             | ⊢        | -             |   |
| 9 ,            | 7  |              |                 |          | +       | $\dagger$  | Н        | 4               |              | 59       |  |                    | +            | T        | +        | 1           | $\vdash$      |        |          | 109        | $\vdash$  | $\dashv$      | -+     | +            | ╁            | ╁             | ┢        | H             |   |
| 10 .           | Z,   | $\perp$      |                 |          | $\perp$ | $oxed{\Box}$                                     |          |                 |              | 60       |  |                    |              |          |          |             |               |        |          | 110        |           |               |        |              |              |               |          |               |   |
| 11 12          | 4  | -            | }               | $\vdash$ | +       | +-   | Н        |                 |              | 61<br>62 |  | $\sqcup$           | - -          | $\bot$   | ╄        | -           | Ш             | 1      |          | 111        | $\Box$    | _             |        | _            | $\bot$       |               |          |               |   |
| 13             | 7  | <del> </del> | ┼-              | $\vdash$ | ╁       | +-   | Н        | . 5             |              | 63       | $\vdash$   | $\vdash$           | +            | +        | +        | ╁╌          | ├─┤           | , (d)  |          | 112<br>113 | $\vdash$  | +             |        | -            | +            | +             | ├        | $\vdash$      |   |
| 14 \           | Z  |              |                 |          |         |  |          |                 |              | 64       |  |                    | 1            | T        | $\top$   | †           | Н             |        |          | 114        |           | +             | _      | +            | +            | +-            | $\vdash$ | -             |   |
| 15             | Z  | 4            | <u> </u>        |          | $\perp$ | $\perp$  |          | i.              |              | 65       |  |                    |              | I        | Ι.       |             |               |        |          | 115        |           | _[            |        |              |              |               |          |               |   |
| 16             | 1  | 4            | ┼-              |          | +-      | +-   | Н        | 1 -             |              | 66<br>67 |  |                    | $\perp$      | 1        | $\bot$   | ┼           | $\vdash$      |        |          | 116        |           | 4             | - -    | 4            | _            | ┺             | ┡        | _             |   |
| 18             | 7  | 1            | +-              | $\vdash$ | +       | -  | $\vdash$ | 4               |              | 68       |  | $\vdash$           | +-           | ╁        | ╁        | ┼┈          | Н             |        |          | 117<br>118 | $\vdash$  | $\dashv$      | +      | +            | +            | ╁             | ┝        | -             |   |
| 19 0           |  |              |                 |          |         |  |          |                 |              | 69       |  | $\vdash$ †         | 十            | 1        | 1        | +           | Н             | 147    |          | 119        | $\forall$ | 十             | -      | +-           | +            | +             | ┢        |               |   |
| 20             | 1  | _            |                 |          | 1       |  |          | i e             |              | 70       |  |                    |              |          | I        |             |               | 35     |          | 120        |           | $\Box$        |        | 工            |              |               |          |               |   |
| 21 22          | ╁  | +            | H               |          | +-      | $\vdash$   |          | di.             |              | 71       |  | $\vdash$           | _   _        | +-       | ╁        | +           | $\vdash$      | 61     |          | 121<br>122 | $\dashv$  | 4             | -      | +            | 4            | ╀             | _        | _             |   |
| 23             | ╁  | +            | $\vdash$        |          | +       | <del>                                     </del> | $\dashv$ |                 |              | 73       | <del>  </del>                                    | $\vdash$           | +            | ╁        | +        | +-          | Н             | M      |          | 123        | $\dashv$  | $\dashv$      | +      | ╁            | ╁╌           | ╁             |          | _             |   |
| 24             | I  |              |                 |          |         |  |          |                 |              | 74       |  |                    |              |          |          |             |               |        |          | 124        |           | $\dashv$      |        | $\top$       |              | 1             | T-       | Т             |   |
| 25<br>26       | +  | +-           |                 | -        | 4       |  | Щ        |                 |              | 75       |  | Ш                  |              | _        | $\perp$  |             |               |        |          | 125        |           | $\perp$       |        |              | $oxed{oxed}$ |               |          |               |   |
| 27             | ╁  | +            | $\vdash$        |          | +       |  | $\dashv$ | 1               |              | 76<br>77 |  | $\vdash$           | +            | ╁        | ╁        | ╁           | Н             |        |          | 126<br>127 | $\dashv$  | $\dashv$      |        | +-           | ╁            | -             |          | L             |   |
| 28             | T  | 1            | П               | _        | $\top$  | $\vdash$   | $\neg$   |                 |              | 78       |  |                    | +            | t        | +        | ╁           | Н             |        |          | 128        | $\dashv$  | $\dashv$      | -+     | +            | +            | ╁             |          | <del> -</del> |   |
| 29             | L  |              |                 |          |         |  |          | 4               |              | 79       |  |                    |              |          |          |             |               |        |          | 129        |           |               |        |              |              |               |          |               |   |
| 30             | ╀  | +            | Н               | $\dashv$ | +       | $\vdash$   |          | Tark.           |              | 80<br>81 |  | $\vdash$           | -            | ╀        | ₩        | ├-          |               |        |          | 130        | $\dashv$  | $\dashv$      | +      | 4            | ╁            | ╁             | _        | _             |   |
| 32             | t  | +-           | $\vdash$        | +        | +-      | $\vdash$   |          | 1.5             |              | 82       |  | $\vdash$           | +-           | $\vdash$ | +        | $\vdash$    | ${\mathbb H}$ | .4     |          | 131<br>132 | $\dashv$  | +             | +      | +            | +            | +             |          | $\vdash$      |   |
| 33             |  |              |                 |          |         |  |          |                 |              | 83       |  |                    |              |          |          |             |               | À      |          | 133        |           |               |        |              |              |               |          |               |   |
| 34             | ╀  | -            | -               | -        | -       | -  |          | が北京             |              | 84       |  | $\perp \downarrow$ | _            | Ļ        | _        |             |               |        |          | 134        | _         | _[            |        | $\perp$      |              | $\sqsubseteq$ |          |               |   |
| 36             | ╁  | +            |                 |          | +       | $\vdash$   | $\dashv$ | 18              |              | 85<br>86 | _  | -                  | +-           | ╁        | ╁        |             | $\vdash$      |        |          | 135<br>136 | $\dashv$  | +             | +      | +-           | ╁            | ├             |          |               |   |
| 37             | t  |              |                 |          |         |  |          | 1.4             |              | 87       |  |                    | -            | +-       | $\vdash$ |             | $\vdash$      |        |          | 137        | $\dashv$  | +             | +      | +            | +            | $\vdash$      | -        |               |   |
| 38             | L  | _            |                 |          | $\perp$ |  |          | 10 d            |              | 88       |  |                    |              |          |          |             |               | 103    |          | 138        |           |               |        |              |              |               |          |               |   |
| 39             | ╀  | +            | $\vdash \vdash$ | +        | +       | $\vdash$   |          | E               |              | 89<br>90 |  | +                  | +            | ├-       | ┼-       | $\vdash$    | Щ             | 7.7    |          | 139        | -         | - -           | +      | +            | $\perp$      | $\vdash$      | Ļ        | $\Box$        |   |
| 41             | t  | $\top$       | $\vdash$        | +        | +       | $\vdash$   | $\dashv$ |                 |              | 91       |  | $\dashv$           | +            | ╁        | ╁        | $\vdash$    | $\dashv$      |        |          | 140<br>141 |           | +             | +      | +            | +-           | ├-            | $\vdash$ | Н             |   |
| 42             | L  |              |                 |          |         |  |          | ari<br>de       |              | 92       |  |                    |              |          | I        |             |               | 1 de   |          | 142        | 寸         | $\perp$       | 士      | 1            | $\perp$      |               |          |               |   |
| 43             | 1  | 4—           | $\sqcup$        | $\perp$  | 4       | $\Box$   | _        | 3               |              | 93       | $\Box\Box$                                       | $\bot$             |              | Ľ        |          | П           | Д             | 8.     |          | 143        |           | $\bot$        | $\top$ | $\perp$      | L            |               |          |               |   |
| 44             | +  | +            | $\vdash$        | -        | ╁       | $\vdash$   | 4        |                 |              | 94<br>95 | -  | $\dashv$           | +            | ╀        | $\vdash$ | $\vdash$    | $\dashv$      | _      |          | 144<br>145 | -         | +             | +      | +            | ╀            | -             | Н        | Н             |   |
| 46             | T  | $\perp$      |                 | $\top$   | 1       | $\vdash \vdash$                                  | $\dashv$ |                 |              | 96       |  | +                  | +            | $\vdash$ | +        | $\vdash$    | $\dashv$      | 1      |          | 145        | $\dashv$  | +             | +      | +            | ╁            | ┢             | $\vdash$ | $\vdash$      |   |
| 47             | Γ  | $\bot$       | 口               |          | I       | $\Box$   | $\Box$   | -[              |              | 97       |  | 工                  |              |          |          |             |               | ŀ      |          | 147        | 二         |               |        |              |              |               |          |               |   |
| 48             | $\vdash$                                     | ╁            | $\vdash$        | -        | +       | $\vdash$   | $\dashv$ | -               |              | 98<br>99 | +  | +                  | +            | $\vdash$ | 1        | $\sqcup$    | Ц             |        |          | 148        |           | $\bot$        |        | $\bot$       | F            |               | П        | Д             |   |
| 50             | $\vdash$                                     | +            | H               | +        | +       | +  | -        | }               |              | 100      | +  | +                  | ╁            | ╁        | +        | $\vdash$    | $\dashv$      | }      |          | 149<br>150 | $\dashv$  | $\dashv$      | +      | +-           | +            | -             | $\vdash$ | $\vdash$      |   |

Application No.

Index of Claims

Applicant(s)